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Bwebb

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57. (New) A retinal stimulation system comprising:
- a first light receiver for receipt of an ambient image;
 - a light processor, coupled to the first light receiver, to provide image-based control based on the ambient image;
 - a light projector, coupled to the light processor, to provide light output based on the image-based control; and
 - a second light receiver adapted to receive at least the light output.

58. (New) The retinal stimulation system of claim 57, wherein the light output comprises diffuse infrared light.

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59. (New) The retinal stimulation system of claim 57, wherein the light output comprises ambient image-based infrared light.

60. (New) The retinal stimulation system of claim 57, wherein the light output comprises ambient image-based visible light.

61. (New) The retinal stimulation system of claim 57, wherein the second light receiver is adapted to receive the ambient image.

62. (New) The retinal stimulation system of claim 57 wherein the second light receiver comprises at least one microphotodiode.

63. (New) The retinal stimulation system of claim 62 wherein the at least one microphotodiode is adapted to stimulate a retina of an eye.

64. (New) The retinal stimulation system of claim 57 wherein the light processor is adapted to control at least one of pulsing of the light output, intensity of the light output, duration of the light output and wavelength of the light output.

65. (New) The retinal stimulation system of claim 57 further including a patient input device connected with the light processor.

66. (New) The retinal stimulation system of claim 57 further including a pupil tracking device operably connected with the first light receiver to control an orientation of the first light receiver.

67. (New) The retinal stimulation system of claim 66 wherein the first light receiver comprises a camera.

68. (New) The retinal stimulation system of claim 57 further comprising a headset to accommodate at least the first light receiver and the light projector.

68. (New) The retinal stimulation system of claim 57 further comprising a headset to accommodate at least the first light receiver and the light projector.

69. (New) The retinal stimulation system of claim 68 wherein the headset comprises a glasses-like configuration.

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70. (New) The retinal stimulation system of claim 57 further comprising an optical element, operatively disposed between light projector and the second light receiver, having an at least partially reflective surface.

71. (New) The retinal stimulation system of claim 70 wherein the optical element comprises a substantially completely reflective mirror.

72. (New) A retinal stimulation system comprising:

a headset;

a first light receiver coupled with the headset for receipt of an ambient image;

a light processor, coupled to the first light receiver, to provide image-based control based on the ambient image;

a light projector, coupled to the light processor and the headset, to provide light output based on the image-based control.

73. (New) The retinal stimulation system of claim 72 further comprising a second light receiver adapted to receive at least the light output from the headset.

74. (New) The retinal stimulation system of claim 73 wherein the second light receiver comprises a microphotodiode.

75. (New) The retinal stimulation system of claim 74 wherein the microphotodiode is adapted to stimulate a retina of an eye.

76. (New) The retinal stimulation system of claim 72 further including a pupil tracking device operably connected with the first light receiver to control an orientation of the first light receiver.

77. (New) The retinal stimulation system of claim 72 wherein the headset comprises a glasses-like configuration.